

ABSTRACT OF THE DISCLOSURE

When an edge node whose order is lower than that of a primary switch detects a failure of the primary switch, the edge node requests a secondary switch that the secondary switch serves as a host of the edge node itself. At this time, the secondary switch establishes a connection between the secondary switch and the edge node, generates routing information and label information in a core network which does not comprise the primary switch to give the routing information and the label information to the edge node. The secondary switch performs communication between the edge node and the secondary switch by using the routing information and the label information which are received from the secondary switch.